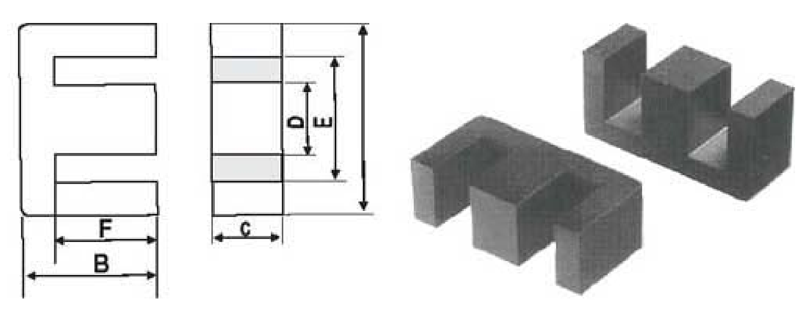
print version

EE Core



Introduce of High Permeability core--EE cores

Yuxiang developed wide temperature range, high permeability core, such as EE8 core, EE11 core, EE10 core, EE12, EE13, EE5, EE6, EE16A,EE16B, EE16C, EE16D, EEL19A, EEL25, EE19B, EE19C, EE20A, EE22, EE25A, EE25.4, EE25F, and EE35A core, by taking full advantage of our ferrite materials,like high permeability core and winding core, experience and precise manufacturing process control technology. This material has the optimum characteristics for the design of pulse transformers, etc. used by outdoor installations of communication equipment requiring the maintenance of characteristics down to low temperatures.

Advantages of High Permeability core--EE cores:

High permeability EE core has got the good low PC with high permeability material in heat degree, high frequency realm, High resistivity, Wide range of operating frequencies-- The suitable frequency range for ferrite cores runs from 1kHz to 1GHz., Low loss combined with high permeability, Time and temperature stability, Large material selection, Versatility of core shapes, Low cost, Light weight.

Application of high permeability core --EE cores

High permeability core, EE core like EE8 core, EE11 core, EE10 core, EE12, EE13, EE5, EE6, EE16A can used for telecommunication, pulsing transformers, broad band transformers, filters, and inducing meters.

Type	Dimensions(mm)					
	A	B	C	D	E	F
EE5	5.25±0.05	2.65±0.05	1.95±0.05	1.35±0.05	3.85Ref	2.0Ref
EE6	6.10±0.2	2.85±0.05	7.95±0.05	1.35±0.05	3.70±0.1	1.90±0.05
EE8	8.3±0.3	4.0±0.2	3.9±0.2	$2.0^{+0}_{-0.3}$	6.0	$3.0^{+0.2}_{-0.1}$
EE8A	8.30±0.2	4.00±0.10	3.60±0.2	1.85±0.15	6.0	3.0±0.1
EE10	10.2±0.3	5.5±0.2	4.8±0.2	2.5±0.2	7.5	4.3±0.2
EE10A	10.00±0.3	5.4±0.2	4.65±0.25	2.4±0.2	7.0min	4.2±0.2
EE11	11.0±0.3	5.5±0.25	5.0±0.25	2.4±0.2	8.0min	4.2±0.2
EE12	12.2±0.3	$5.2^{+0.3}_{-0.1}$	$4.0^{+0.1}_{-0.3}$	$3.2^{+0.1}_{-0.2}$	8.8min	3.6±0.2
EE13	13.0±0.3	6.0±0.2	5.9±0.3	$2.8^{+0}_{-0.4}$	9.8min	$4.6^{+0.3}_{-0.1}$
EE13A	13.0±0.4	6.0±0.15	5.9±0.2	2.6±0.2	10.2±0.3	4.6±0.1
EE13B	12.9±0.3	5.0±0.3	6.0±0.3	2.85±0.15	8.5min	3.65±0.15
EE16A	16.4±0.4	7.3±0.3	$5.0^{+0}_{-0.5}$	4.0±0.2	11.7min	$5.2^{+0.3}_{-0.1}$
EE16B	16.0±0.4	12.4±0.3	$5.1^{+0}_{-0.4}$	4.0±0.2	11.7min	10.4±0.3
EE16C	16.0±0.3	7.2±0.1	4.8±0.2	3.8±0.2	10.0±0.3	5.2±0.25
EE16D	16.1±0.6	8.05±0.15	4.5±0.2	4.55±0.15	12.0±0.3	5.9±0.2
EEL19	19.0±0.3	13.65±0.25	4.85±0.25	4.85±0.25	14.0±0.3	11 .4±0.25
EEL25.4	25.4±0.4	10.00±0.4	6.35±0.3	6.35±0.3	18.6±0.3	12.7±0.3
EE19A	19.0±0.4	8.0±0.3	$5.0^{+0.1}_{-0.5}$	$5.0^{+0}_{-0.5}$	13.7	$5.6^{+0.4}_{-0.1}$
EE19B	19.0±0.4	13.6±0.3	$5.1^{+0}_{-0.5}$	$5.1^{+0}_{-0.5}$	13.5	11.3±0.3
EE19C	19.1±0.3	8.0±0.3	4.8±0.3	4.8±0.3	14.0min	5.7±0.2
EE20A	20.5±0.7	10.7±0.3	7.0±0.4	5.0±0.4	14.0min	7.0±0.3
EE22	22.0±0.4	$10.0^{+0.6}_{-0}$	5.5±0.3	4.0±0.2	17.0 m in	$7.5^{+0.4}_{-0}$
EE25A	25.6±0.5	10.0±0.3	6.35±0.3	6.35±0.3	18.8min	6.8±0.25
EE25.4	25.4±0.75	15.85±0.3	6.30±0.3	6.50±0.2	18.7min	6.60±0.40
EE25F	25.0±0.4	10.0±0.2	6.55±0.3	6.55±0.3	18.6±0.3	6.8±0.15
EE35A	35.0±0.6	14.6±0.3	9.2±0.3	9.4±0.3	24.8	9.8±0.3

Type	Core parameter				weight (g/pr.)	AL(nH/N²)		
	C1 (mm^{-1})	Ae (mm^2)	le (mm)	Ve (mm^3)		F5(±25%)	F7(±25%)	F10(±25%)
EE5	4.78	2.63	12.6	33.1	0.16	450	530	950min
EE6	3.70	3.31	12.2	40.4	0.24	600	760	1275min
EE8	2.4	8.0	19.2	153.2	1.0		850min	1275 min
EE8A	2.75	7.0	19.2	134	0.7	900	1100	1520 min
EE10	2.2	12.1	26.1	315	1.8		1125min	1688min
EE10A	2.46	10.6	26.1	276	1.6		870 min	
EE11	2.21	12.3	27.2	334	1.7		970min	
EE12	3.0	7.92	23.2	182.9	3.8		1400 min	2100min
EE13	1.7	17.0	30.3	517.0	3.6		1600 min	3100min
EE13A	1.88	16.0	30.3	487	2.4	1750	2200	
EE13B	2.18	13.8	30.1	416	2.7		1000	
EE16A	1.82	19.2	35.0	672.0	4.0		2000 min	3500 min
EE16B	2.84	19.4	55.0	1067	6.2		1800 min	2600 min
EE16C	1.92	18.4	35.5	655	3.2	1900	2300	
EE16D	1.93	19.5	37.7	737	3.7	2000	2600	
EEL19	2.65	23.4	62.1	1450	7.2	1550	2050	
EEL25.4	1.82	40.4	73.4	2963	15.0		2500	
EE19A	1.68	23.3	39.2	914.2	4.8		2400 min	3600 min
EE19B	2.64	23.4	61.7	1443	7.1		1750 min	2450 min
EE19C	1.74	22.8	39.6	903	4.6		1730min	
EE22	1.2	38.7	47.1	1825	9.0		2400min	3800 min
EE25A	1.23	40.3	49.7	2003	10		4000min	5600 min
EE20A	1.21	39.0	47.1	1840	9.9		2340min	
EE25.4	1.08	44.5	47.9	2130	10.9		2630min	
EE25F	1.17	42.2	49.4	2080	10	3550	4450	
EE35A	0.85	90.34	69.5	6276.3	31		5600min	7500min

A_L:1kHz,0.5mA,100Ts

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